FIG. 1

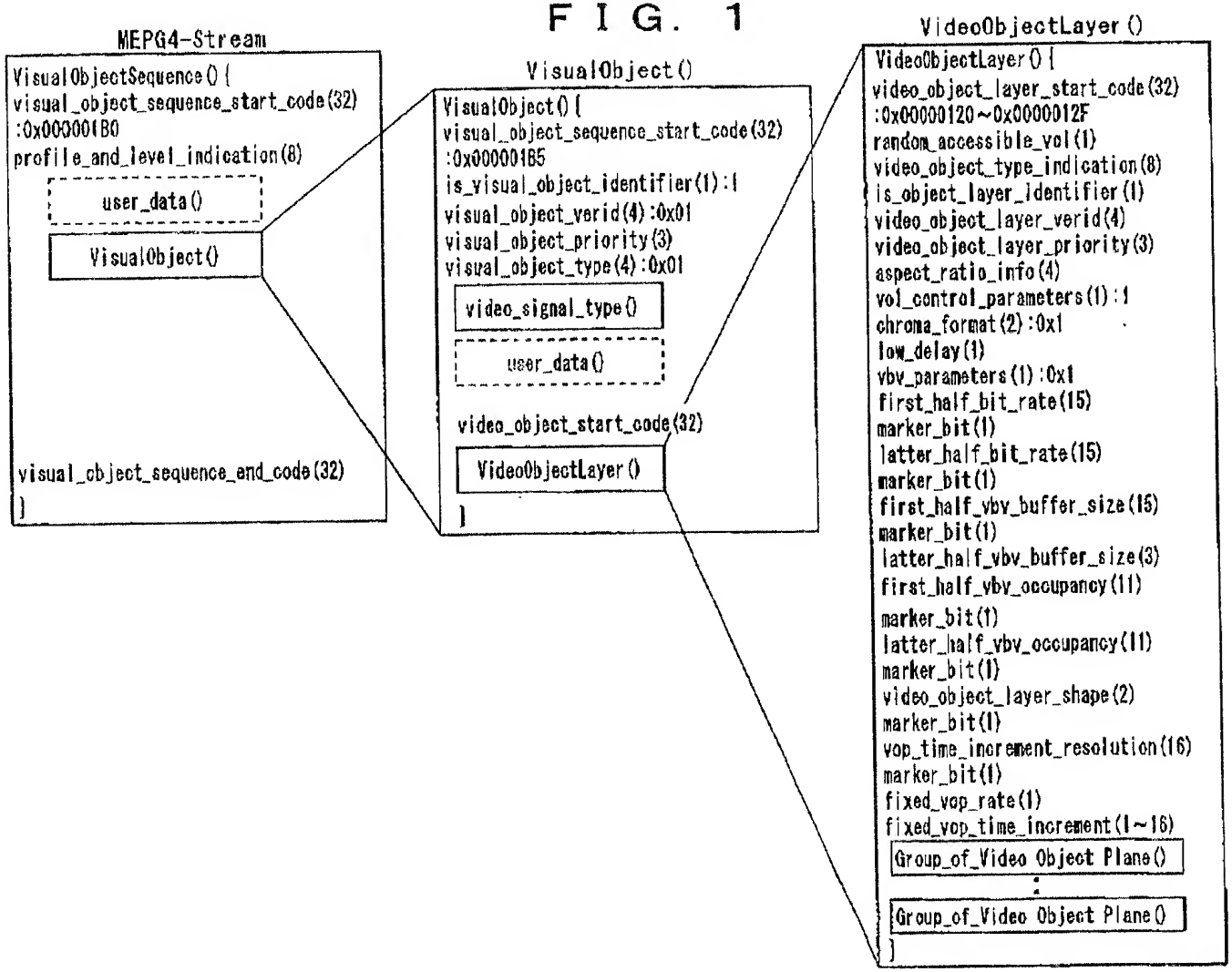
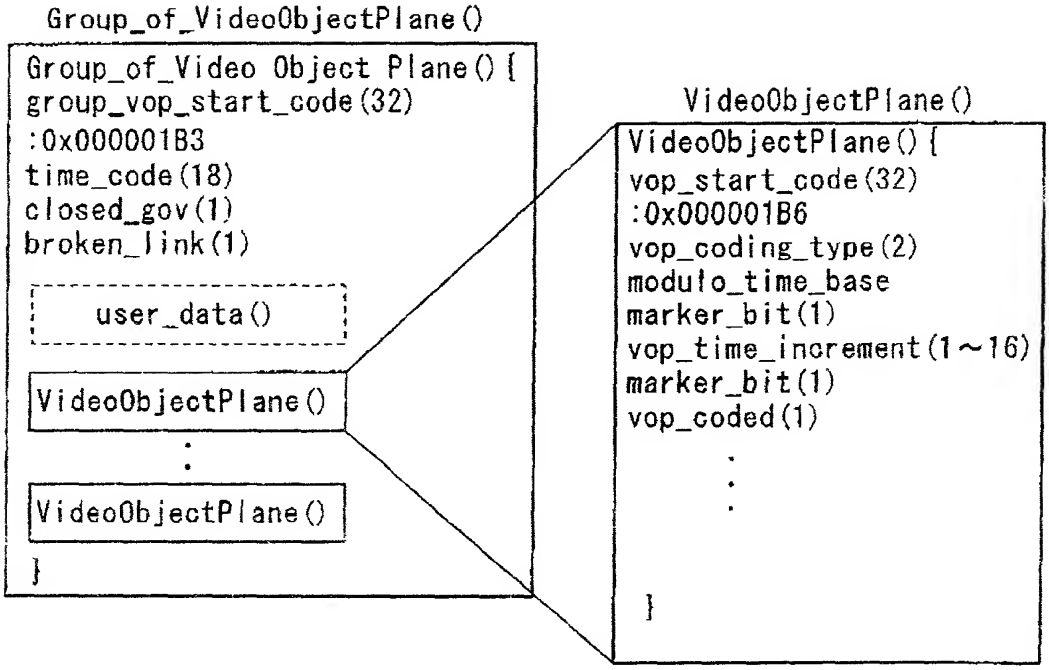

MEPG4-Stream
VisualObjectSequence(){
visual_object_sequence_start_code(32)
:0x000001B0
profile_and_level_indication(8)
user_data()
VisualObject()
visual_object_sequence_end_code(32)
}
VisualObject()
VisualObject(){
visual_object_sequence_start_code(32)
:0x000001B5
is_visual_object_identifier(1):1
visual_object_verid(4):0x01
visual_object_priority(3)
visual_object_type(4):0x01
video_signal_type()
user_data()
video_object_start_code(32)
VideoObjectLayer()
}
VideoObjectLayer()
VideoObjectLayer(){
video_object_layer_start_code(32)
:0x00000120~0x0000012F
random_accessible_vol(1)
video_object_type_indication(8)
is_object_layer_identifier(1)
video_object_layer_verid(4)
video_object_layer_priority(3)
aspect_ratio_info(4)
vol_control_parameters(1):1
chroma_format(2):0x1
low_delay(1)
vbv_parameters(1):0x1
first_half_bit_rate(15)
marker_bit(1)
latter_half_bit_rate(15)
marker_bit(1)
first_half_vbv_buffer_size(15)
marker_bit(1)
latter_half_vbv_buffer_size(3)
first_half_vbv_occupancy(11)
marker_bit(1)
latter_half_vbv_occupancy(11)
marker_bit(1)
video_object_layer_shape(2)
marker_bit(1)
vop_time_increment_resolution(16)
marker_bit(1)
fixed_vop_rate(1)
fixed_vop_time_increment(1~16)
Group_of_Video Object Plane()
Group_of_Video Object Plane()
}

FIG. 2



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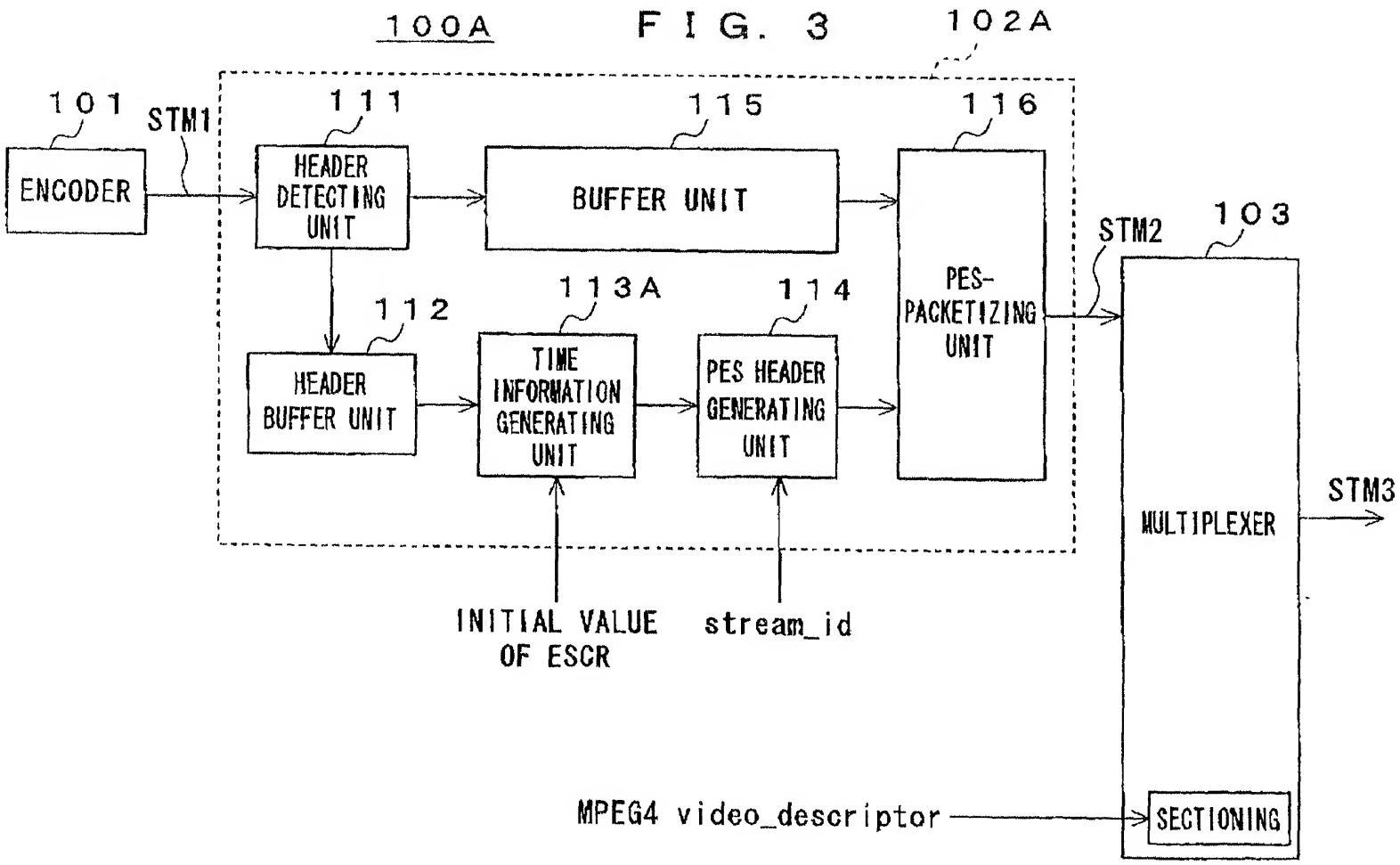

100A
FIG. 3
102A
101
STM1
111
115
116
ENCODER
HEADER DETECTING UNIT
BUFFER UNIT
PES-PACKETIZING UNIT
STM2
103
112
113A
114
HEADER BUFFER UNIT
TIME INFORMATION GENERATING UNIT
PES HEADER GENERATING UNIT
MULTIPLEXER
STM3
INITIAL VALUE OF ESCR
stream_id
MPEG4 video_descriptor
SECTIONING

2093-20*-4h9580DT

100B

FIG. 4

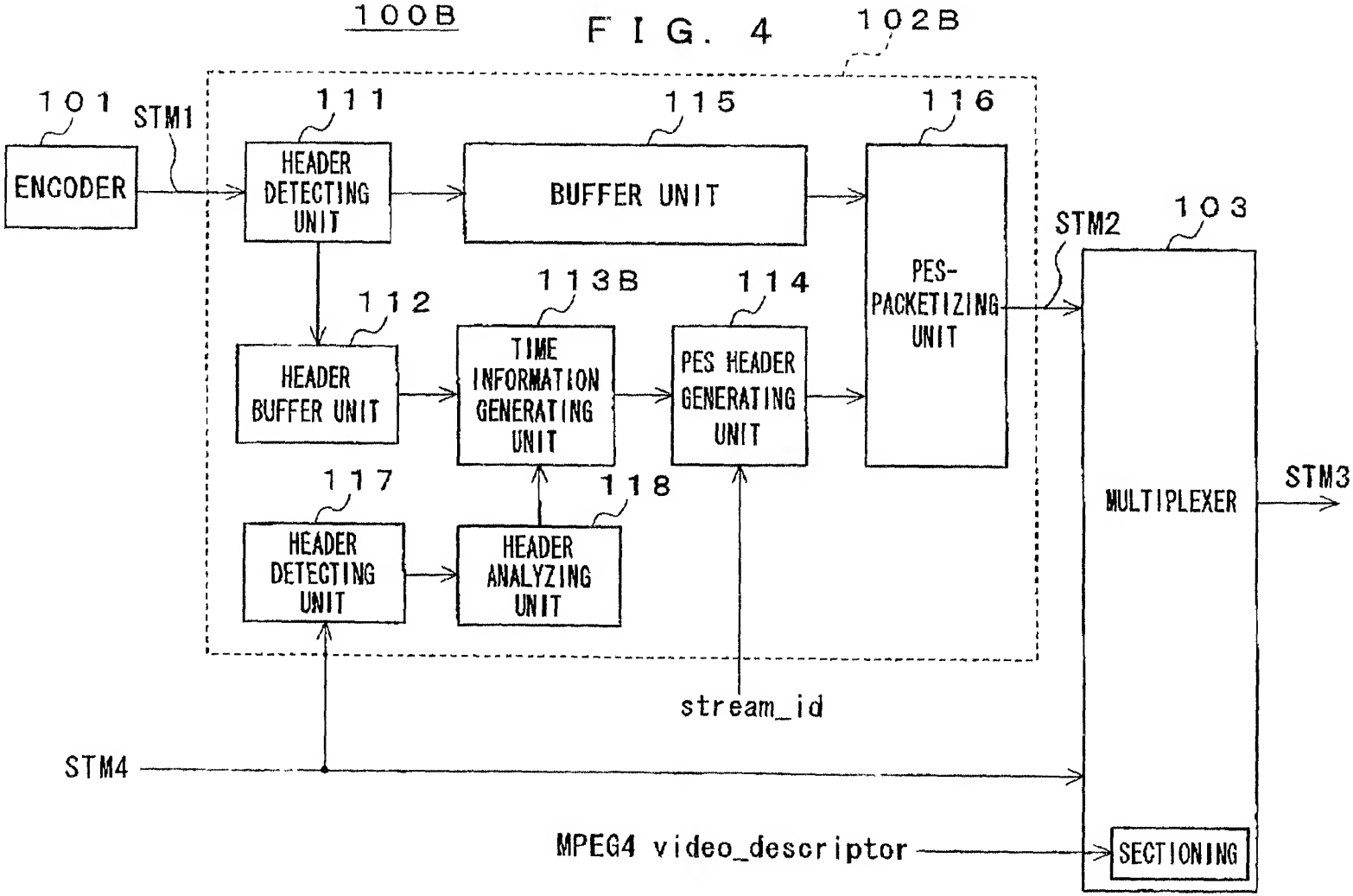


FIG. 5

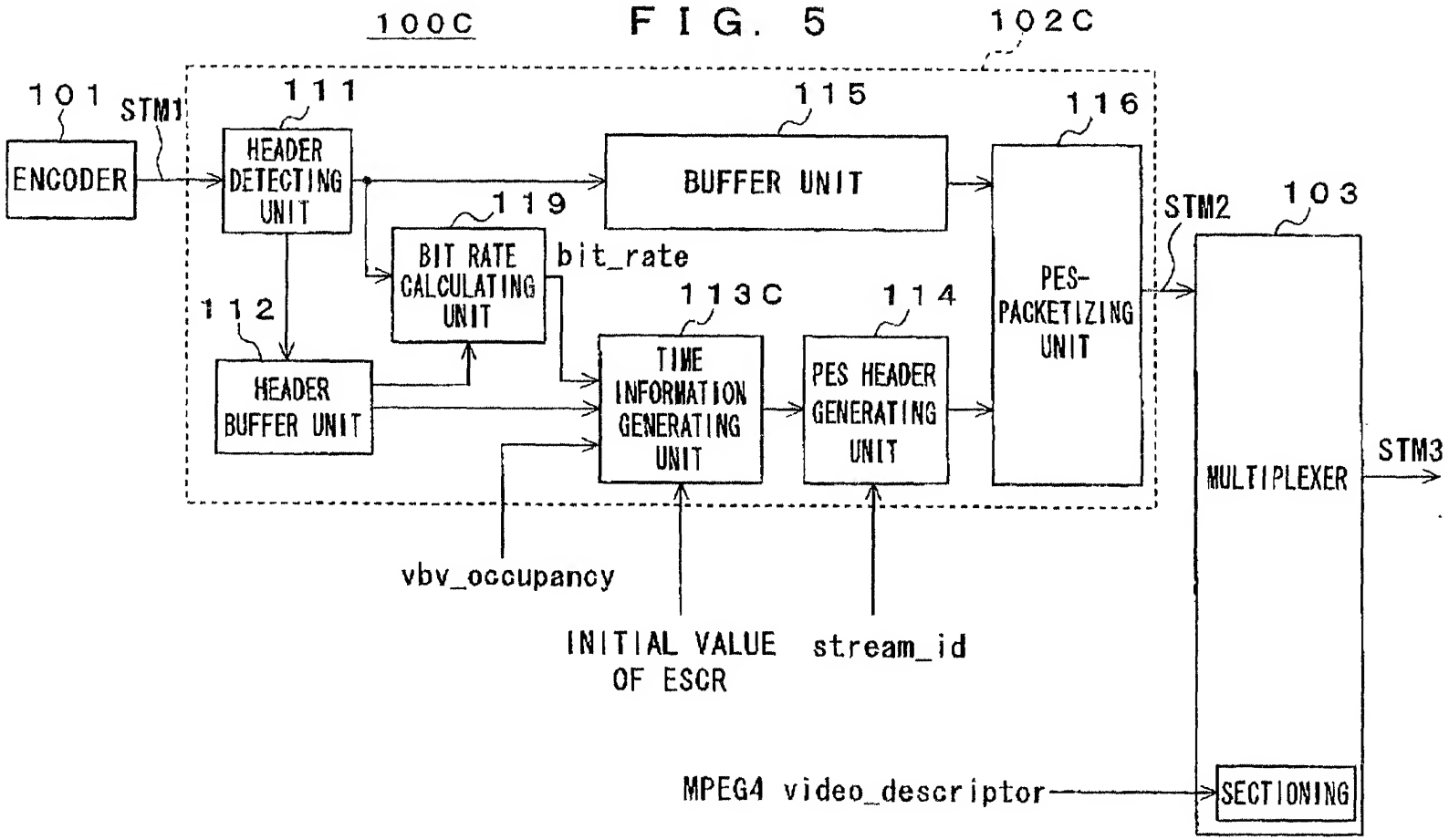
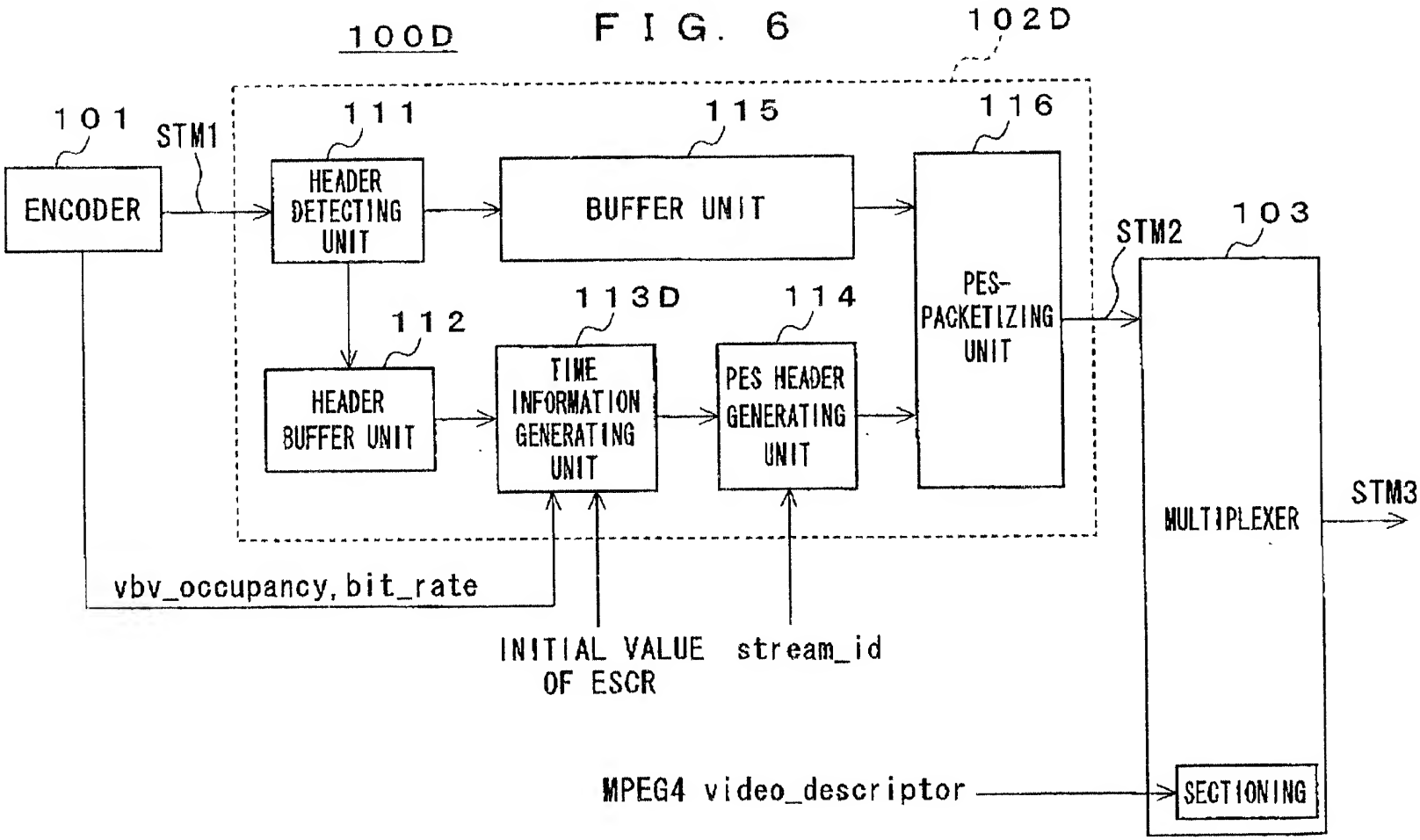

100C
102C
101
STM1
ENCODER
111
HEADER DETECTING UNIT
115
BUFFER UNIT
116
PES-PACKETIZING UNIT
STM2
103
MULTIPLEXER
STM3
119
BIT RATE CALCULATING UNIT
bit_rate
112
HEADER BUFFER UNIT
113C
TIME INFORMATION GENERATING UNIT
114
PES HEADER GENERATING UNIT
vbv_occupancy
INITIAL VALUE OF ESCR
stream_id
MPEG4 video_descriptor
SECTIONING

FIG. 6


100D
102D
101
STM1
111
115
116
ENCODER
HEADER DETECTING UNIT
BUFFER UNIT
PES-PACKETIZING UNIT
STM2
103
112
113D
114
HEADER BUFFER UNIT
TIME INFORMATION GENERATING UNIT
PES HEADER GENERATING UNIT
MULTIPLEXER
STM3
vbv_occupancy, bit_rate
INITIAL VALUE OF ESCR
stream_id
MPEG4 video_descriptor
SECTIONING

2002-20"-4199001

100E FIG. 7

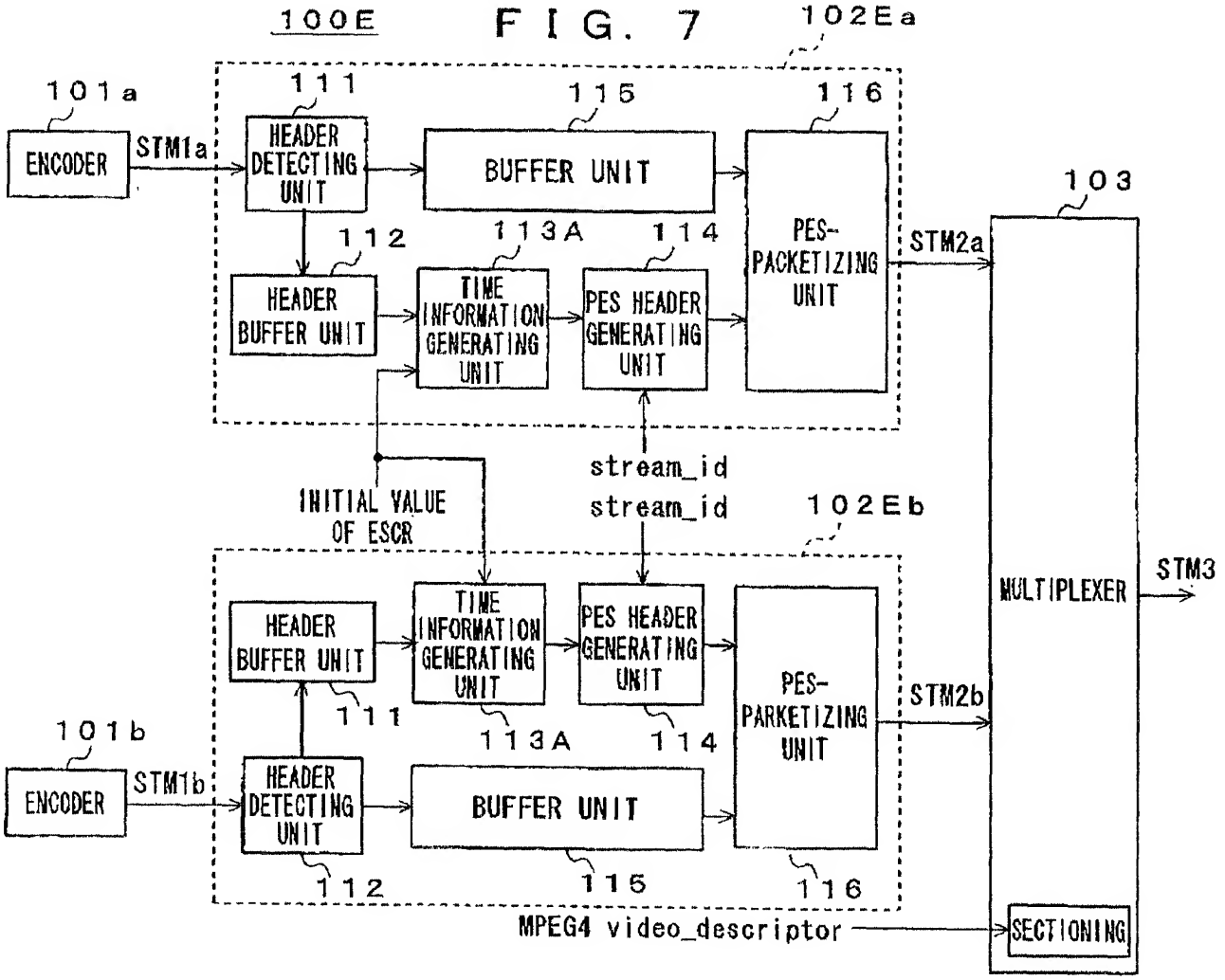
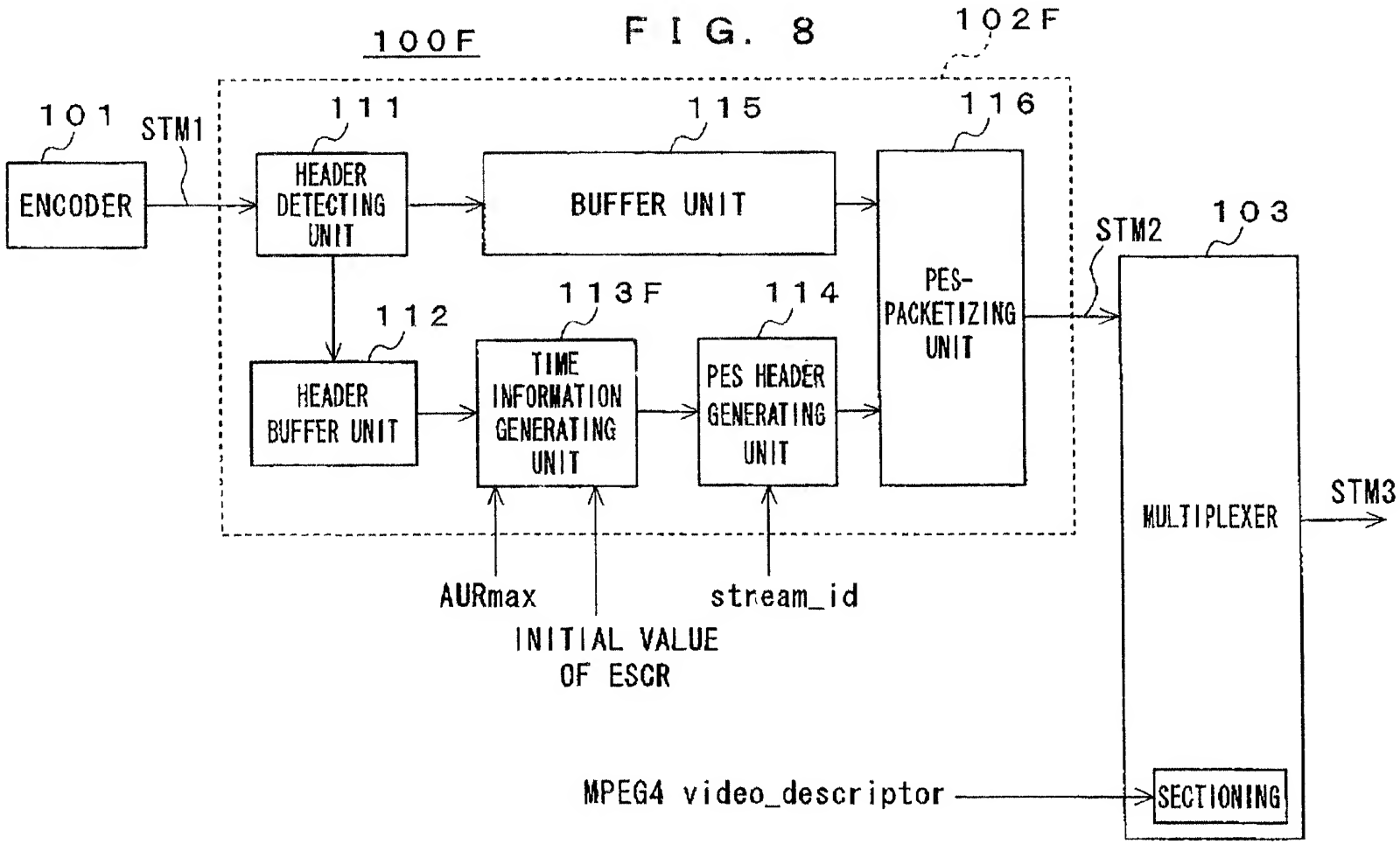
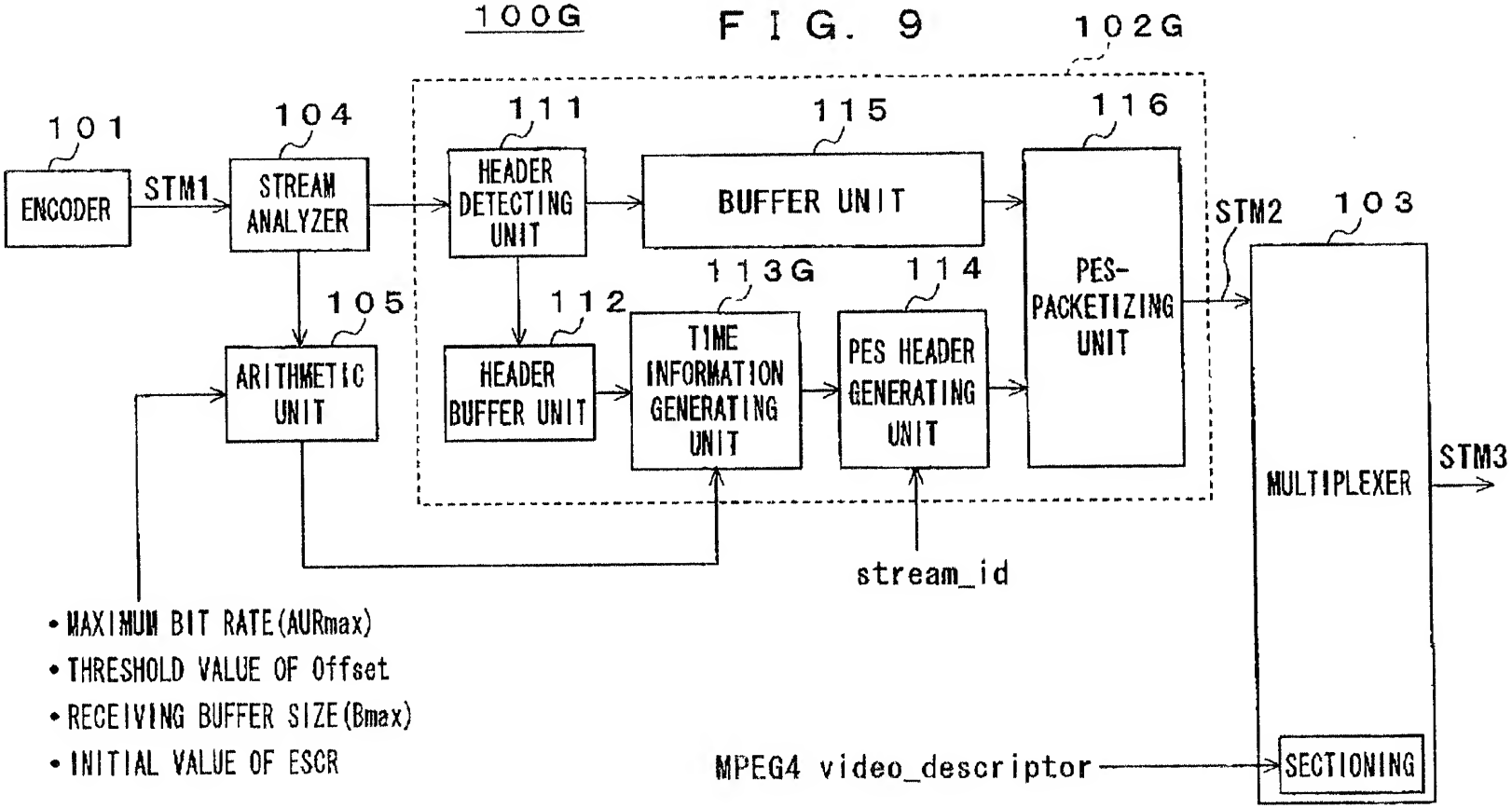


FIG. 8


100F
102F
101
STM1
ENCODER
111
HEADER DETECTING UNIT
115
BUFFER UNIT
116
PES-PACKETIZING UNIT
STM2
103
MULTIPLEXER
STM3
112
HEADER BUFFER UNIT
113F
TIME INFORMATION GENERATING UNIT
114
PES HEADER GENERATING UNIT
AURmax
INITIAL VALUE OF ESCR
stream_id
MPEG4 video_descriptor
SECTIONING

100G

FIG. 9


101
ENCODER
STM1
104
STREAM ANALYZER
105
ARITHMETIC UNIT
111
HEADER DETECTING UNIT
112
HEADER BUFFER UNIT
113G
TIME INFORMATION GENERATING UNIT
114
PES HEADER GENERATING UNIT
115
BUFFER UNIT
116
PES-PACKETIZING UNIT
102G
STM2
103
MULTIPLEXER
STM3
SECTIONING
stream_id
• MAXIMUM BIT RATE(AURmax)
• THRESHOLD VALUE OF Offset
• RECEIVING BUFFER SIZE(Bmax)
• INITIAL VALUE OF ESCR
MPEG4 video_descriptor

100H

FIG. 10

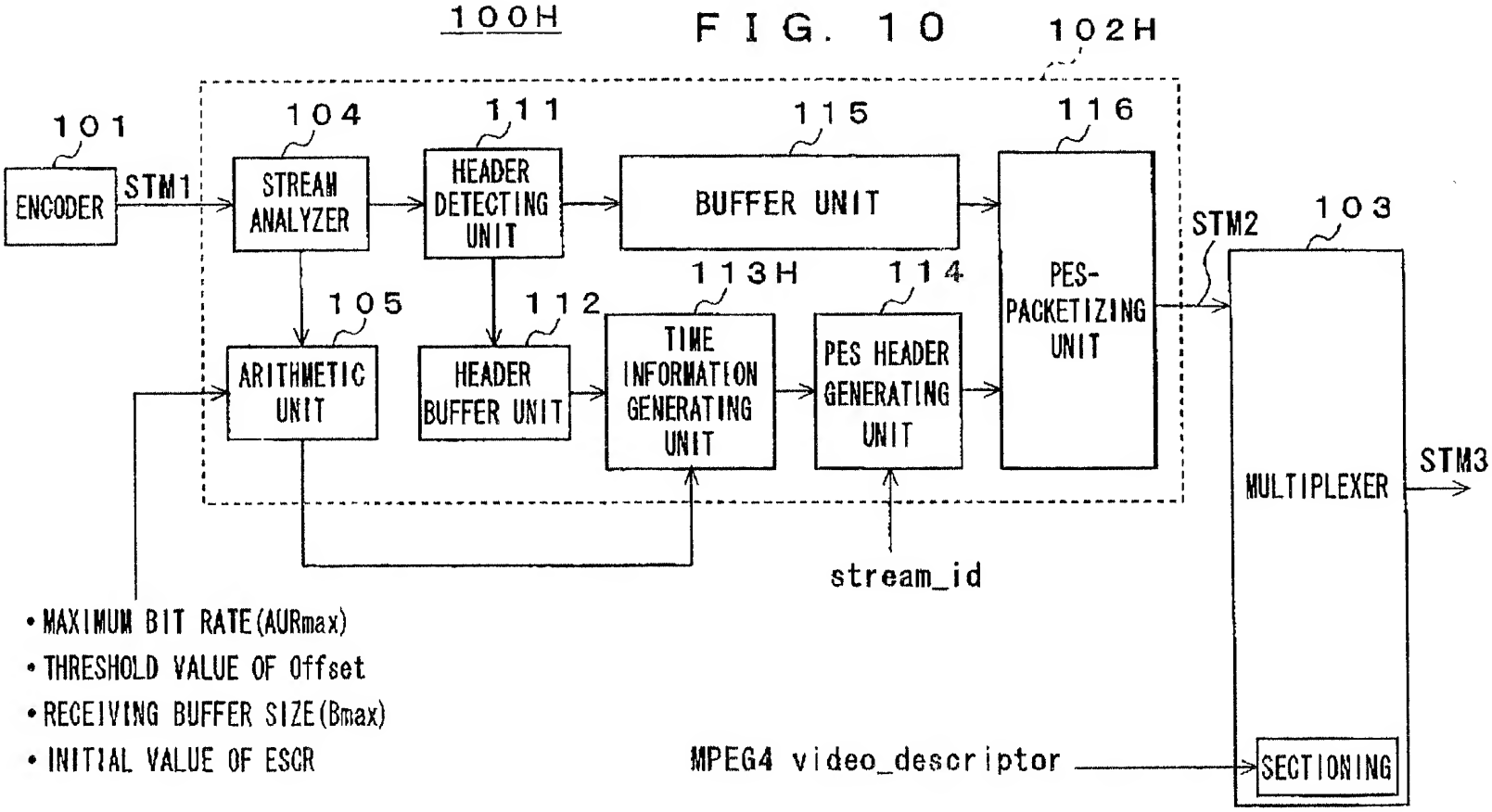

102H
101
ENCODER
STM1
104
STREAM ANALYZER
111
HEADER DETECTING UNIT
115
BUFFER UNIT
116
PES-PACKETIZING UNIT
STM2
103
MULTIPLEXER
STM3
105
ARITHMETIC UNIT
112
HEADER BUFFER UNIT
113H
TIME INFORMATION GENERATING UNIT
114
PES HEADER GENERATING UNIT
stream_id
• MAXIMUM BIT RATE(AURmax)
• THRESHOLD VALUE OF Offset
• RECEIVING BUFFER SIZE(Bmax)
• INITIAL VALUE OF ESCR
MPEG4 video_descriptor
SECTIONING

FIG. 11

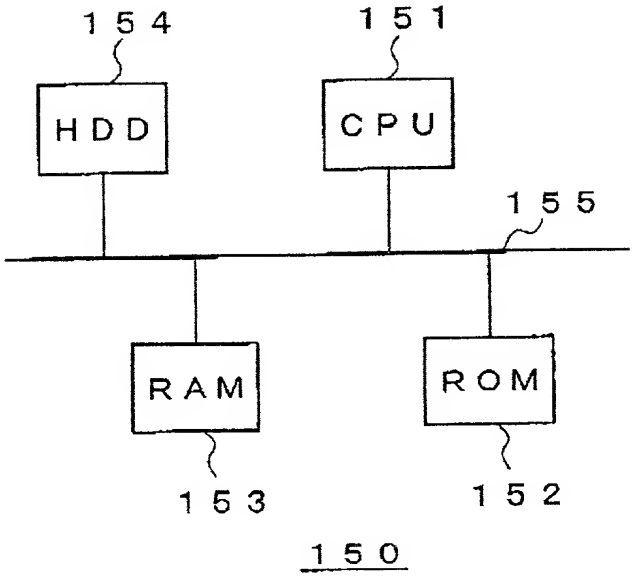


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FIG. 12

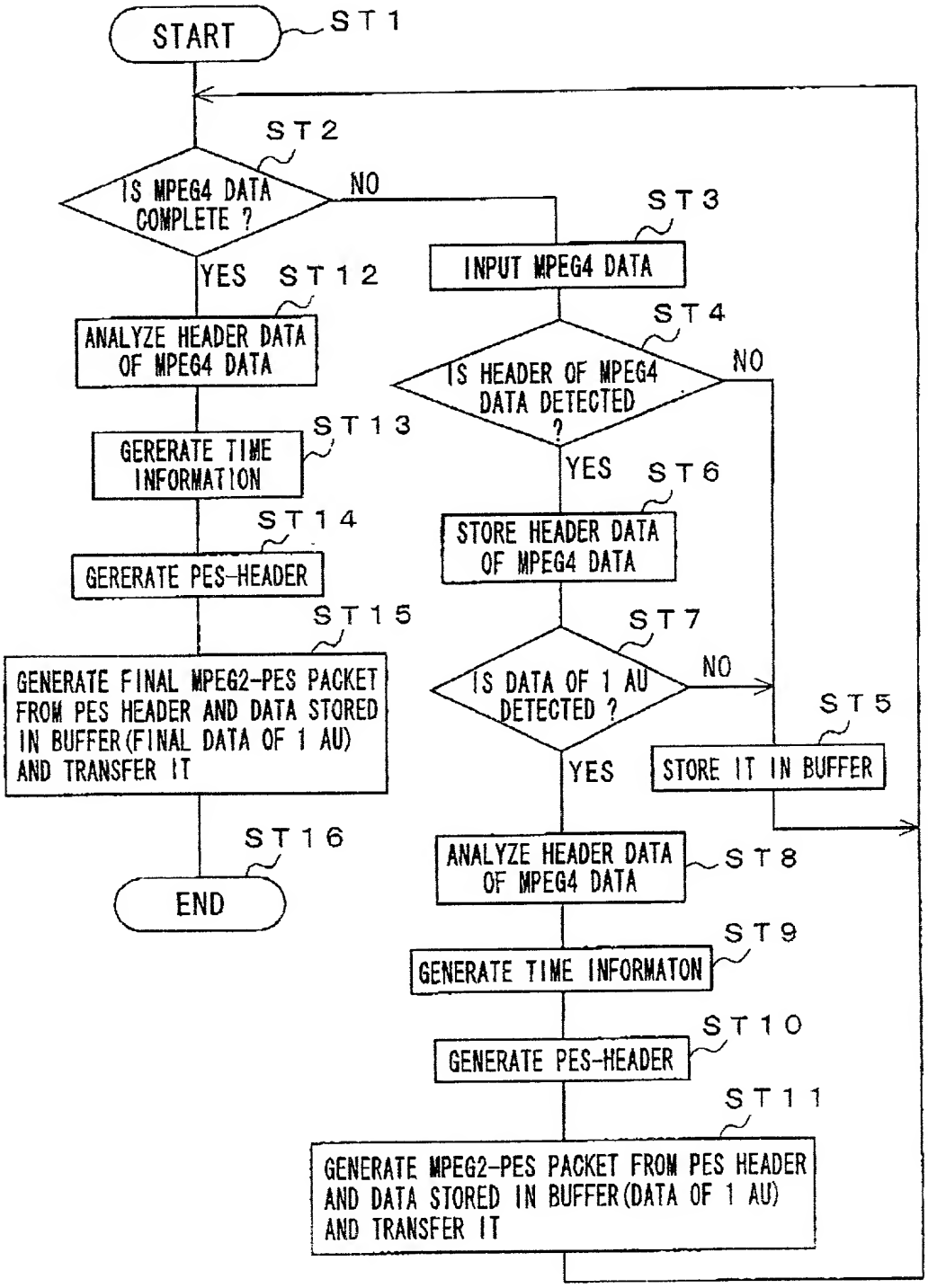

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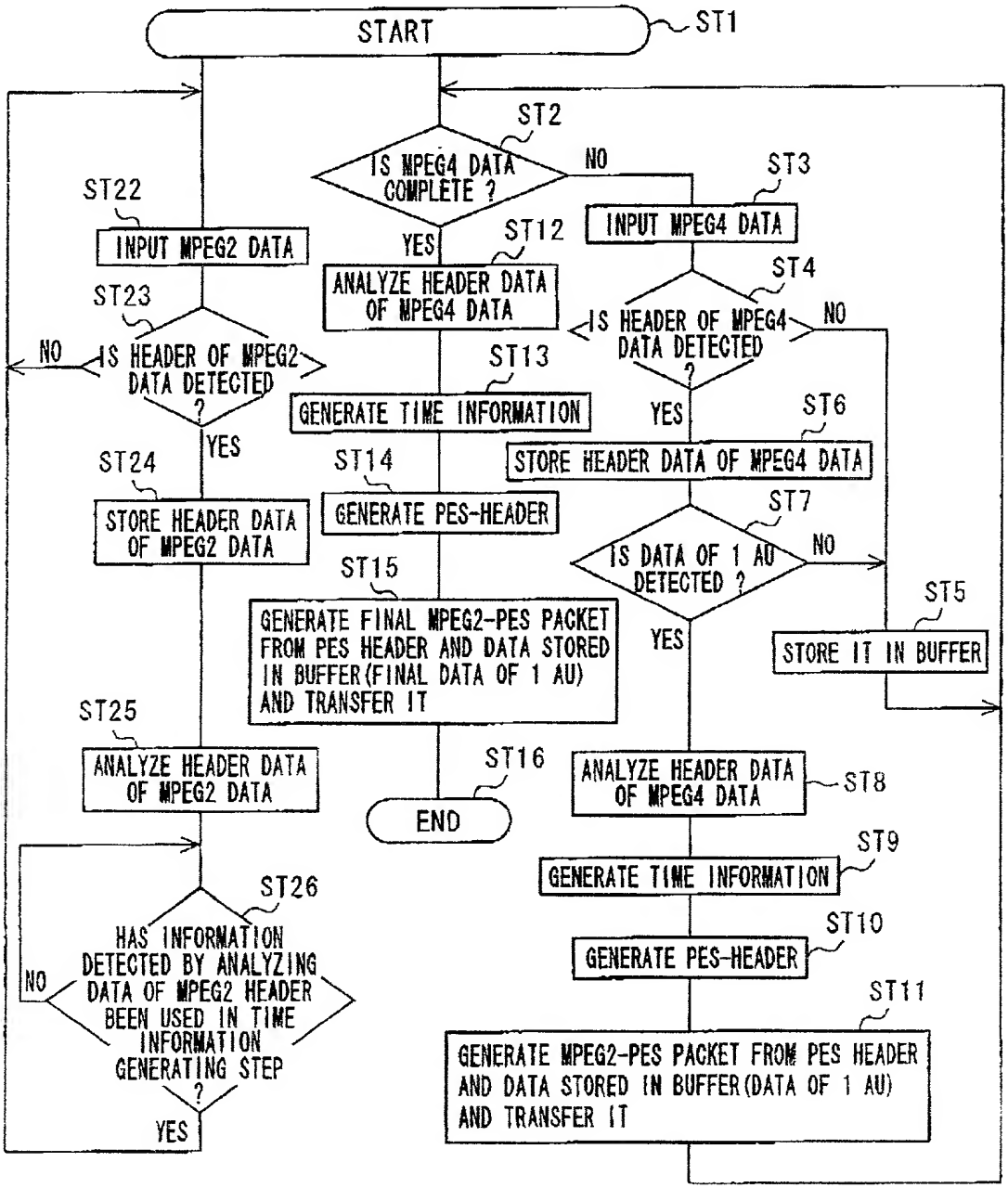
FIG. 13



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